

U.S. Patent Application Serial No. 09/622,246
Attorney Docket No. 11345.021001

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A decoder for a digital audiovisual transmission system, the decoder including:
- a processor for decompressing and displaying compressed still picture data; [[and]]
- a memory, ~~characterised in that the memory~~ compris[~~es~~]ing a storage memory ~~allocated to receive~~for receiving from the processor decompressed data representing a plurality of still picture images and for indefinitely storing the received decompressed data[[,]]; and
- at least one display memory adapted to hold contemporaneously data representing multiple still picture images readable by the processor prior to display, the data representing the plurality of still picture images being copied from the storage memory to the display memory for subsequent display.
2. (Canceled)
3. (Previously Presented) A decoder as claimed in claim 1 in which the processor is adapted to process image data in the display memory as one layer amongst a plurality of layers superimposed one over the other when displayed.
4. (Currently Amended) A decoder ~~as claimed in claim 3~~for a digital audiovisual transmission system, the decoder including:

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a processor for decompressing and displaying compressed still picture data;

a memory, characterised in that the memory comprises a storage memory allocated to receive from the processor decompressed data representing a plurality of still picture images; and

at least one display memory adapted to hold contemporaneously data representing multiple still picture images readable by the processor prior to display, the data representing the plurality of still picture images being copied from the storage memory to the display memory for subsequent display,

in which the processor is adapted to process image data in the display memory as one layer amongst a plurality of layers superimposed one over the other when displayed, and

in which the processor is adapted to display the image data in the display memory in a layer normally used by the processor to display broadcast audiovisual information.

5. (Currently Amended) A decoder ~~as claimed in claim 1~~ for a digital audiovisual transmission system, the decoder including:

a processor for decompressing and displaying compressed still picture data;

a memory, characterised in that the memory comprises a storage memory allocated to receive from the processor decompressed data representing a plurality of still picture images; and

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at least one display memory adapted to hold contemporaneously data representing multiple still picture images readable by the processor prior to display, the data representing the plurality of still picture images being copied from the storage memory to the display memory for subsequent display.

in which the memory comprises a second display memory readable by the processor [[means]] and corresponding to a second layer of displayed image data, data being copied from the storage memory to the second display memory for subsequent display in the second layer of image data.

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6. (Canceled)

7. (Canceled)

8. (Canceled)

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9. (Currently Amended) A decoder as claimed in claim 1, ~~in which further comprising buffer memory means for storing compressed digital picture data is stored in a buffer memory means prior to decompression by the processor.~~

10. (Original) A decoder as claimed in claim 9, in which the buffer means comprises a plurality of buffer memory elements.

11. (Canceled)

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12. (Canceled)
13. (Previously Presented) A decoder as claimed in claim 1, in which the processor is adapted to decompress picture data sent in a compression standard that uses a colour look-up table.
14. (Previously Presented) A decoder as claimed in claim 1, in which the processor is adapted to decompress picture data sent in a compression standard that uses a red/blue/green colour value associated with each pixel.
15. (Previously Presented) A decoder as claimed in claim 1 in which the processor comprises a general processor for decompressing digital picture data and a graphic processor for preparing the decompressed data for display.
16. (Currently Amended) A method of digital image processing in a decoder for a digital audiovisual transmission system, the decoder comprising:
- a processor for decompressing and displaying compressed still picture data ~~characterised in that, wherein the decompressed digital image data representing a plurality of still picture images received from the processor is transmitted to a storage memory for indefinite storage therein and thereafter copied from the storage memory from which said decompressed digital image data is copied to a display memory which holds contemporaneously data representing said multiple~~

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picture images, the data being read by the processor for subsequent display of such multiple picture images.

17. (Canceled)

18. (Canceled)

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19. (New) A decoder as claimed in claim 1, wherein the display memory is configured to hold digital image data representing the plurality of still pictures that have been modified or duplicated during copying.

20. (New) A decoder as claimed in claim 5, wherein the second display memory is configured to hold digital image data representing the plurality of still pictures that have been modified or duplicated during copying.

21. (New) A decoder as claimed in claim 1, wherein the display memory is configured to hold partial image data copied from the storage memory so as to permit display of part of an image.

22. (New) A decoder as claimed in any claim 1, further comprising a high level application running on the processor for controlling the copying of image data from the storage memory into a first or second display memory.

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23. (New) A decoder as claimed in claim 8, wherein the application is configured to control the deletion of decompressed data from the storage memory.
24. (New) A decoder as claimed in claim 10, wherein the processor is configured to control decompression and transfer of image data from the buffer memory elements to the storage memory, and from the storage memory to a display memory, such that image information present in the storage memory is transferred to the display at the end of the decompression of the contents of each buffer element.
25. (New) A decoder as claimed in claim 1, wherein the processor is configured to control the decompression and transfer of a group of images in a single image file from the buffer memory to the storage memory, and from the storage memory to a display memory, such that image information is transferred from the storage memory to the display memory at the end of the decompression of each image in the image file.
26. (New) A method as claimed in claim 16, wherein digital image data copied from the storage memory into the display memory is modified or duplicated during the copying.
27. (New) A method as claimed in claim 16, wherein the image data in the display memory is processed as one layer amongst a plurality of layers superimposed one

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over the other when displayed.

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28. (New) A method as claimed in claim 25, wherein the image data in the display memory is displayed in a layer normally used by the processor to display broadcast information.
29. (New) A method as claimed in claim 16, wherein the digital image data is copied from the storage memory to a second display memory of the memory for subsequent display in a second layer of displayed image data.
30. (New) A method as claimed in claim 27, wherein the digital image data copied from the storage memory to the second display memory is modified or duplicated during the copying.
31. (New) A method as claimed in claim 16, wherein partial image data is copied from the storage memory to a display memory so as to permit display of part of an image.
32. (New) A method as claimed in claim 16, wherein image data is copied from the storage memory into a first or second display memory under control of a high level application running on the processor.
33. (New) A method as claimed in claim 16, wherein compressed digital picture data
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is stored in a buffer memory means prior to decompression by the processor.

34. (New) A method as claimed in claim 33, wherein the buffer memory means comprises a plurality of buffer memory elements.
35. (New) A method as claimed in claim 34, wherein decompression and transfer of image data from the buffer memory elements to the storage memory, and from the storage memory to a display memory, is controlled by the processor such that image information present in the storage memory is transferred to the display at the end of the decompression of the contents of each buffer element.
36. (New) A method as claimed in claim 16, wherein decompression and transfer of a group of images in a single image file from the buffer memory to the storage memory, and from the storage memory to a display memory, is controlled by the processor such that image information is transferred from the storage memory to the display memory at the end of the decompression of each image in the image file.
37. (New) A method as claimed in claim 16, wherein picture data sent in a compression standard that uses a color look-up table is decompressed.
38. (New) A method as claimed in claim 16, wherein picture data sent in a compression standard that uses a red/blue/green color value associated with each

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pixel is decompressed.